Date: Mon, 2 May 94 19:50:18 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V94 #481
To: Info-Hams

Info-Hams Digest   Mon, 2 May 94   Volume 94 : Issue 481

Today's Topics:

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 2 May 94 18:09:56 GMT
From: news-mail-gateway@ucsd.edu
Subject: * SpaceNews 02-May-94 *
To: info-hams@ucsd.edu

SB NEWS @ AMSAT $SPC0502
* SpaceNews 02-May-94 *

BID: $SPC0502

=========
SpaceNews
=========

MONDAY MAY 2, 1994

SpaceNews originates at KD2BD in Wall Township, New Jersey, USA. It is published every week and is made available for unlimited distribution.

* AO-27 OPERATING NOTES *

AO-27 has had its FM transponder in operation on the weekends when the spacecraft is in sunlight. The transponder on AO-27 receives on an uplink frequency of 145.850 MHz FM, and downlinks on 436.800 MHz FM. As of yet, no official operating schedule has been announced, but that hasn't stopped amateur experimenters from communicating with others through the satellite.

As an example, John, N8QGC, has been working stations on AO-27 all the way from his Detroit area QTH to as far away as Mexico City, Mexico, Baffin Island, and the North West Territories. N8QGC usually works AO-27 from a mobile station using 10 watts of transmitter power from his Kenwood TM-731A and a homebrew 1/4 wave antenna. Even with his low power and small antenna system, John has no problem securing a strong signal into the satellite. He has even tried accessing the satellite with his ICOM IC-U2AT running 2.5 watts and a rubber duck antenna and also had a good uplink signal (especially during periods when larger stations were not clobbering the satellite uplink with excessively strong signals). Due to the extreme sensitivity of this satellite, uplink ERP should be kept below 25 watts.

AO-27 control station Mark, N4TPY, has reported that the satellite has a transponder output power of between 2 and 3 watts at the present time, and as such, is nearly impossible to receive on a HT with a rubber duck. Omni-directional antennas have provided only limited results.

N8QGC uses a 6 element KLM 440-6X yagi rated at 8.9 dB gain to copy AO-27's downlink signals. He aims it out his car window and receives the satellite well. The doppler shift experienced when communicating through this satellite can be quite high. John usually starts listening for AO-27 at 436.805 MHz, and tracks it down to 436.790 MHz at LOS.

Santoyo V. Ramon, XE1KK, of Mexico City has reported hearing Spanish speaking stations through AO-27 with very strong signals. They are not

hams, nor are they hearing the satellite downlink. He believes they are located in the Caribbean zone, probably Cuba or Puerto Rico, and have been heard talking about union elections. He is actively tracking down the source of these signals.

[Info via N8QGC, XE1KK, and ANS]

* KEPLERIAN DATA AVAILABLE *

Up-to-date Keplerian data in the NASA 2-line format is available via the Internet at archive.afit.af.mil (129.92.1.66) using anonymous ftp. Files such as amateur.tle, glonass.tle, gorizont.tle, gps-ops.tle, gps.tle, tvro.tle, visual.tle, and weather.tle are located in the /pub/space subdirectory at this site.

* OSCAR-11 NEWS *

The Digitalker has been activated on the UoSAT-OSCAR-11 satellite. UO-11 has an FM downlink on 145.826 MHz, and the voice messages are interspersed with telemetry and news bulletins sent at 1200 bps using AFSK modulation.

* MIR NEWS *

James, G1HJH, of Shoreham by Sea, West Sussex, England provides the following listing of messages contained on the Mir Personal Message System on 18-Apr-94:

Msg #	Stat	Date	Time	To	From	@ BS	Subject
2273	PR	04/17/94	10:34	ALL	N6JLH		MIR Keps 4-14 UTC
2272	P	04/16/94	11:33	R0MIR	N7YRV		Hi
2271	P	04/16/94	11:31	W6KZW	WD6GYU		Hello de Manton!
2270	P	04/16/94	10:59	VK3CFI	VK3ZGL		hello maggie
2269	P	04/16/94	09:58	N7QME	N7TTQ		hi hhere
2268	PR	04/16/94	09:57	R0MIR	N7TTQ		greetings from Tigard, OR
2267	P	04/15/94	23:05	R0MIR	F1OKN		** DOBRI VIETCHERE **
2266	PR	04/15/94	14:18	R0MIR	KB2MVN		School Greetings
2265	P	04/15/94	14:10	R0MIR	KD6CLO		QSL CARD
2264	PR	04/15/94	12:44	ALL	KB2MVN		CALLING CQ.....
2265	P	04/18/94	01:05	R0MIR	G1HJH		HOPE ALL IS FINE

5449 Bytes free
Next message Number 2274

* OSCAR-13 SCHEDULE *

The following is the latest AO-13 operating schedule:

```
M QST *** AO-13 TRANSPONDER SCHEDULE ***  1994 Apr 07-Jul 11
Mode-B  : MA   0 to MA 170 |
Mode-BS : MA 170 to MA 218 |
Mode-S  : MA 218 to MA 220 |<- S beacon only
Mode-S  : MA 220 to MA 230 |<- S transponder; B trsp. is OFF
Mode-BS : MA 230 to MA 250 |        Blon/Blat 230/-5
Mode-B  : MA 250 to MA 256 |
Omnis   : MA 250 to MA 120 |  Move to attitude 180/0, Jul 11
```

[Info via G3RUH]

* FO-20 SCHEDULE *
==========

The Fuji-OSCAR-20 satellite will be operating in Mode JA between 11-May-94 at 06:54 UTC through 18-May-94 at 07:20 UTC. The packet mailbox is active at other times.

[Info via Kazu Sakamoto, JJ1WTK]

* FEEDBACK/INPUT WELCOMED *
==========

Mail to SpaceNews should be directed to the editor (John, KD2BD) via any of the following paths:

```
FAX      : 1-908-747-7107
PACKET   : KD2BD @ N2KZH.NJ.USA.NA
INTERNET : kd2bd@amsat.org

MAIL     : John A. Magliacane, KD2BD
           Department of Engineering and Technology
           Advanced Technology Center
           Brookdale Community College
           Lincroft, New Jersey  07738
           U.S.A.
```

<<=- SpaceNews: The first amateur newsletter read in space! -=>>

/EX

--
John A. Magliacane, KD2BD   * /\/\ * Voice   : 1-908-224-2948
Advanced Technology Center |/\/\/\| Packet : KD2BD @ N2KZH.NJ.USA.NA
Brookdale Community College |\/\/\/| Internet: kd2bd@ka2qhd.ocpt.ccur.com

Lincroft, NJ 07738   * \/\/ * Morse   : -.- -.. ..--- -... -..

Date: Mon, 2 May 1994 18:11:24 GMT
From: fluke!chuckb@beaver.cs.washington.edu
Subject: 3Y0PI QSLs
To: info-hams@ucsd.edu

Has anyone reveived a QSL from the 3Y0PI dxpedition? Just curious. (I
haven't.)

--
Chuck Bowden / WB7R / chuckb@tc.fluke.com / (206) 356-6228
Fluke Corporation / MS 232E / PO Box 9090 / Everett WA 98206-9090

Date: 2 May 94 23:06:48 GMT
From: news-mail-gateway@ucsd.edu
Subject: ANS-120 BULLETINS
To: info-hams@ucsd.edu

SB SAT @ AMSAT $ANS-120.01
AO-13 OPS NET SCHEDULE

HR AMSAT NEWS SERVICE BULLETIN 120.03 FROM AMSAT HQ
SILVER SPRING, MD APRIL 30, 1994
TO ALL RADIO AMATEURS BT
BID: $ANS-120.01

Current AMSAT Operations Net Schedule For AO-13

AMSAT Operations Nets are planned for the following times. Mode-B Nets
are conducted on AO-13 on a downlink frequency of 145.950 MHz. If, at
the start of the OPS Net, the frequency of 145.950 MHz is being used
for a QSO, OPS Net enthusiasts are asked to move to the alternate
frequency of 145.955 MHz.

Date	UTC	Mode	Phs	NCS	Alt NCS
09-May-94	0000	B	175	W5IU	WA5ZIB
14-May-94	1700	B	167	WA5ZIB	W5IU
21-May-94	2130	B	185	VE2LVC	W9ODI

Any stations with information on current events would be most welcomed.
Also, those interested in discussing technical issues or who have quest-
ions about any particular aspect of OSCAR statellite operations, are
encouraged to join the OPS Nets. If neither of the Net Control Stations

show up, any participant is invited to act as the NCS.

Slow Scanners are invited to join the SSTV sessions on AO-13. The frequency is 145.955 MHz. The net meets at 45 minutes before Mode S, and on Mode B following Mode S on Saturdays and Sundays. Join those sessions or convey your wishes for other SSTV skeds to wb6llo@amsat.org, and he will coordinate your efforts.

/EX
SB SAT @ AMSAT $ANS-120.02
WEEKLY OSCAR STATUS REPORTS

HR AMSAT NEWS SERVICE BULLETIN 120.04 FROM AMSAT HQ
SILVER SPRING, MD APRIL 30, 1994
TO ALL RADIO AMATEURS BT
BID: $ANS-120.02

Weekly OSCAR Status Reports: 30-APR-94

AO-13: Current Transponder Operating Schedule:
M QST *** AO-13 TRANSPONDER SCHEDULE *** 1994 Apr 07-Jul 11
Mode-B : MA 0 to MA 170 |
Mode-BS : MA 170 to MA 218 |
Mode-S : MA 218 to MA 220 |<- S beacon only
Mode-S : MA 220 to MA 230 |<- S transponder; B trsp. is OFF
Mode-BS : MA 230 to MA 250 | Blon/Blat 230/-5
Mode-B : MA 250 to MA 256 |
Omnis : MA 250 to MA 120 | Move to attitude 180/0, Jul 11
[G3RUH/DB2OS/VK5AGR]

FO-20: The following is the current schedule for transponder operations:
ANALOG MODE:
11-May-94 6:54 -to- 18-May-94 7:20 UTC
Digital mode: Unless otherwise noted above.
[Kazu Sakamoto (JJ1WTK) qga02014@niftyserve.or.jp]

KO-25: N7RYW has noticed that KO-25 started to become very difficult for him to uplink to. This began for him over a week ago. At first, he attributed the difficulty to the nearness of AO-21. This week he noticed that AO-21 was far out of sight of KO-25, and yet the trouble remained. N7RYW does not belive that his keps for AO-21 are off and thus he feels there might be something bothering KO-25's receiver. He is wondering if the receiver was switched to the secondary frequency. If so, it may be hard to find, as it was when KO-25 was first activated. In that instance, it was found to be off from its published frequency. N7RWY will be testing various uplinks over the next few days to see if he can find where its secondary uplink frequency is located. If there any other KO-25 users have had problems, please send N7RYW a note at his INTERNET address of

n7ryw@teleport.com. In a further status report received from WH6I, he also notes that KO-25 has been deaf with many stations thinking that AO-21 was the cause of the desensing of KO-25's reciever. However, analysis of the telemetry and many "re-tries" by some stations with a lot of power seems to indicate that desense is not the problem. In fact KO-25 has been deaf even when AO-21 is not near it. At the moment it seems that there might be a software problem, or perhaps the receiver is on a different (unknown) frequency. [N7RYW & WH6I]

AO-16: Working well. [WH6I]

LO-19: Operating normally. [WH6I]

KO-23: Operating Normally. [WH6I]

RS-10/11: Operating normally with very strong signals. [ZS6AOP]

MIR: N0XCZ reports that MIR's Personal Bulletin Board System (PBBS) is quite active but it appears to be running with low power. Stations can be heard but with weak signals. The MIR PBBS can be heard and worked on a frequency of 145.550 MHz, FM, simplex. [N0XCZ]

The AMSAT NEWS Service (ANS) is looking for volunteers to contribute weekly OSCAR status reports. If you have a favorite OSCAR which you work on a regular basis and would like to contribute to this bulletin, please send your observations to WD0HHU at his CompuServe address of 70524,2272, on INTERNET at wd0hhu@amsat.org, or to his local packet BBS in the Denver, CO area, WD0HHU @ W0LJF.#NECO.CO.USA.NOAM. Also, if you find that the current set of orbital elements are not generating the correct AOS/LOS times at your QTH, PLEASE INCLUDE THAT INFORMATION AS WELL. The information you provide will be of value to all OSCAR enthusiasts.

/EX

Date: Mon, 2 May 94 15:25:37 GMT
From: ihnp4.ucsd.edu!usc!math.ohio-state.edu!howland.reston.ans.net!gatech!newsxfer.itd.umich.edu!nntp.cs.ubc.ca!alberta!adec23!mark@network.ucsd.edu
Subject: Canadian Reciprocity
To: info-hams@ucsd.edu

drt@world.std.com (David R Tucker) writes:

>A: I highly recommend getting a copy of the rules. They publish a
>number of circulars called RICs ("ricks") that you can order.

They distribute these for free, so do not hesitate to collect the necessary

set! BTW, in Canada, we call them "are eye ceez" or "circulars", not "ricks" :-)

Ciao -- 73 de VE6MGS/Mark -sk-

Date: 30 Apr 94 02:29:23 GMT
From: agate!howland.reston.ans.net!cs.utexas.edu!swrinde!ihnp4.ucsd.edu!
library.ucla.edu!csulb.edu!csus.edu!netcom.com!jkane@ucbvax.berkeley.edu
Subject: Dual Band Mobile Recommendations?
To: info-hams@ucsd.edu

I am going to purchase a dual band (2m / 70cm) mobile rig _real soon
now_. I think that I have narrowed it down to either the Kenwood TM-732
or the Yaesu FT-5100. Anyone use either/both of these radios? Any other
radio that I should consider?

Thanks and 73

 John Arthur Kane, N5SLH, Network Design Analyst, Paranet, Inc, 214/239-5544

 email: jkane@netcom.com
        kane@dfw.paranet.com

--

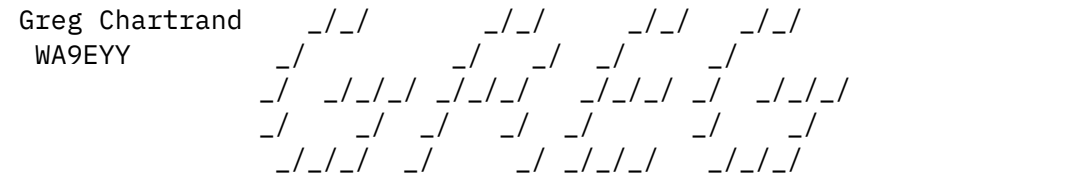
 John Arthur Kane, N5SLH, Network Design Analyst, Paranet, Inc, 214/239-5544

 email: jkane@netcom.com
        kane@dfw.paranet.com

Date: 2 May 94 17:24:10 GMT
From: dog.ee.lbl.gov!overload.lbl.gov!dancer.ca.sandia.gov!cronkite.nersc.gov!
Greg.Chartrand@ucbvax.berkeley.edu
Subject: FCC Computers
To: info-hams@ucsd.edu

>Numerous times over the past year there have been postings about the FCC
>contract to replace their present Ham-License-Computer system with networked
>workstations. And within the past week a posting mentioned that the change-
>over is now imminent.

Based upon their past performance in computerizing the licensing
process, I'm sure it took them several years to figure out how to get
those IBM 360's networked.



Date: 2 May 94 19:45:35 GMT
From: sdd.hp.com!nigel.msen.com!garnet.msen.com!not-for-mail@hplabs.hpl.hp.com
Subject: FT-530 Mod Made Easy?
To: info-hams@ucsd.edu

murl@delphi.com writes:
> I recently purchased a Yaesu FT-530. When I bought the radio the
> dealer gave me a MOD sheet for the expanded receive. When I started
> to make the mod I found that the circuit board layout was not the
> same as the drawing on the mod sheet and that there is a loop of
> wire on what I think is pad 13. If this is pad 13 it looks like
> simply cutting the wire will accomplish the mod. I did not try
> this since I am not sure that this is the right pad. Has anyone
> else seen this layout? Can the mod be done by cutting the wire?
>
[drawing and sig deleted]

I too just bought one (MFG lot 25) and it has the jumper. While in
Dayton, I got the mod book and the layout is shown for this board. I
cut the jumper, and it didn't work; no problem, maybe a strand from
the jumper is still there...Well I cleaned that up completely
(desoldering station) and still no go. Called Yaesu: 'What Jumper? It
should only have a dot of solder.' I described the location of the pads
it came from, they walked me through the reset and toggle procedure, and
still no go. The radio just ignores it, pretends like the mod never
happened. I removed the battery pack and the lithium battery for about
half an hour, and tried the sequences again, NO GO!

Anyone have any ideas?

Vince -- KA8CSH

--
Vince Vielhaber -- KA8CSH email: vev@msen.com flame-mail: /dev/null
include <std/disclaimers.h>

Date: 2 May 1994 16:17:16 GMT
From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!uwm.edu!reuter.cse.ogi.edu!
netnews.nwnet.net!owl.csrv.uidaho.edu!raven.csrv.uidaho.edu!
cross901@network.ucsd.edu
Subject: Help, no license yet!
To: info-hams@ucsd.edu

Thank you to all of you who responded. A person from the ARRL responded
and answered my question. I appreciate your concern.

Rich Crossler

Date: 2 May 94 16:41:52 GMT
From: dog.ee.lbl.gov!ihnp4.ucsd.edu!library.ucla.edu!news.ucdavis.edu!
modem60.ucdavis.edu!ddtodd@ucbvax.berkeley.edu
Subject: Linked repeaters from L.A. to Oregon??
To: info-hams@ucsd.edu

In article <parkerCp1H0q.8GL@netcom.com> parker@netcom.com (Andrew Parker) writes:
>From: parker@netcom.com (Andrew Parker)
>Subject: Linked repeaters from L.A. to Oregon??
>Date: Fri, 29 Apr 1994 21:00:26 GMT

>A friend of mine is moving to southern Oregon soon, and I am wondering if
>anyone knows of a linked repeater system (on any band) that would link from
>roughly Los Angeles to Ashland, Oregon. The only system that I know of is
>CONDOR, but I don't think it connects all the way up to Oregon. Thanks for
>your help.

Seems like the perfect time to learn code.

cheers,
Dan

==
Dan Todd   ddtodd@ucdavis.edu   kc6uud@ke6lw.#nocal.ca.us.na
Charter Member: Dummies for UNIX

When radios are outlawed, only outlaws will have radios
- David R. Tucker on rec.radio.amateur.policy
==

Date: Mon, 2 May 1994 16:30:45 GMT
From: ihnp4.ucsd.edu!galaxy.ucr.edu!library.ucla.edu!csulb.edu!csus.edu!

netcom.com!dgf@network.ucsd.edu
Subject: Mobile Antenna Experience
To: info-hams@ucsd.edu

In article <2q3458$rfp@news.acns.nwu.edu> r-dewan@nwu.edu (Rajiv Dewan, ARS AA9CH) writes:
>In article <2ptl17$kt4@hebron.connected.com> jfreedmn@hebron.connected.com
>(Jeffrey A. Freedman) writes:
>>Has anyone had any experience (either positive or negative) with
>>the OUTBACKER MOBILE ANTENNA? I am considering installing an HF

>some more while driving to Dayton this last weekend. A while ago
>some one had posted a comparison of a bunch of mobile antennas which
>rated them based on field strength measurements. The outbacker was
>dead last and the bugcatcher first - with a factor of 50 or so. That is
>17db!
>

If someone saved this, could you please e-mail or post it? I've been looking for just this data while trying to decide if/how to replace my roof-mounted hustler antenna.

73 Dave WB0GAZ dgf@netcom.com

Date: Mon, 2 May 1994 19:27:53 GMT
From: ihnp4.ucsd.edu!sdd.hp.com!hpscit.sc.hp.com!cupnews0.cup.hp.com!jholly@network.ucsd.edu
Subject: Straight Key Events ? [Q]
To: info-hams@ucsd.edu

Martin (martin%dacws2@cen.jrc.it) wrote:
: Hi folks,
: Is there still an SKN (Straight Key Night) where CW fans meet
: and use ordinary hand keys?
: If not, are there OM that can remember such Straight Key
: Meetings?
: Does or did something similar exist for semi-automatic keyers
: (mechanical bugs)?
: In Europe there is a Straight Key Day every New Year's Day
: and every Midsummer Day (organized by a Scandinavian CW club),
: there is also a "bug" party organized by a German club.

: I'ld be grateful about any info concerning such events in the
: US or other parts of the world (history, dates, participation)

: 73 de IK2RMZ

: Internet: martin%dacws2@dac.ise.jrc.it or martin.zurn@cen.jrc.it
the ARRL still sponsors the SKN every New Years eve. Never heard of a
bug night.

Jim, WA6SDM

Date: 30 Apr 94 02:25:59 GMT
From: agate!ihnp4.ucsd.edu!library.ucla.edu!csulb.edu!csus.edu!netcom.com!
jkane@ucbvax.berkeley.edu
Subject: Vertical Antenna Recommendations?
To: info-hams@ucsd.edu

I would like recommendations and comparisons of various HF vertical
antennas. I am changing QTH's and need a small lot antenna. I plan on
mounting the antenna about 10 feet above the house, possibly on a tripod.
I would like to know if the antennas need radials, how well they get out,
etc.

I know that the following antennas exist:

Butternut	HF-9VX
Cushcraft	R7
Cushcraft	AP8A
Hustler	6-BTV
Hygain	DX-88
MFJ	1796

If you are spending your own money, what would you buy?

Thanks and 73

 John Arthur Kane, N5SLH, Network Design Analyst, Paranet, Inc, 214/239-5544

 email: jkane@netcom.com
        kane@dfw.paranet.com

--

 John Arthur Kane, N5SLH, Network Design Analyst, Paranet, Inc, 214/239-5544

 email: jkane@netcom.com
        kane@dfw.paranet.com

Date: Mon, 2 May 1994 11:20:23 -0500
From: pa.dec.com!csg.mot.com!Wayne_Estes@decwrl.dec.com

Subject: Where is EO50JS ?
To: info-hams@ucsd.edu

This weekend I worked EO50JS which is a special callsign. The operator (Yuri) was talking very fast, and I didn't understand him when he announced his QTH.
 His QSL manager is LY1DS in Lithuania.

Does anyone know where EO50JS is?

Please respond to wayne@csg.mot.com, or to the newsgroup. Thanks...WD5FFH

--
Wayne A. Estes
Motorola Asia-Pacific Cellular Subscriber Division
600 N. U.S. Hwy. 45, Rm. A-S345
Libertyville, IL 60048-1286
PHONE: 1-708-523-2386   Z-MAIL: wayne@csg.mot.com
FAX: 1-708-523-8795   POST: w10191@email.mot.com

Date: 2 May 94 15:20:28 GMT
From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!convex!news.duke.edu!godot.cc.duq.edu!newsfeed.pitt.edu!pitt.edu!hpb.cis.pitt.edu!hpb@network.ucsd.edu
Subject: Which DSP Unit?
To: info-hams@ucsd.edu

   While attempting to hide from the rain and mud at Dayton this year, I wandered into a dog-and-pony show for a DSP audio processor made by a company named Timewave. I was quite impressed.

   I was all set to buy one of their units when a friend suggested I visit the booth of JPS, another DSP vendor. I sat through their sales pitch and was also impressed.

   While out in the flea market, I came accross the Radio Shack area and noticed that they too sell a DSP unit at a very low price (around $70).

   I am now greatly confused. Timewave's unit seems to have superior ergonomics and the ability to fine-tune the filtering, but JPS seemed to have a better noise reduction algorithm. And although Radio Shack is bad-mouthed by many hams, their ham gear generally receives pretty good reviews in QST, so it's possible that their cheap DSP unit is a bargain. So to clear up some of this confusion, let me pose the following questions to the Collected Wisdom of the Net:

   - The two units that I saw demoed seemed to work very well while

processing the signals on vendor's tapes. How well do they work in the
Real World?

   - How well does Radio Shack's DSP unit work?

   - Which vendor do you prefer, Timewave, JPS, or Radio Shack?

   - BONUS QUESTION: Would any of the DSP units have been of any value
in getting my car out the mud in Dayton on Saturday? :=)

Harry Bloomberg WA3TBL
hpb+@pitt.edu

Date: Mon, 2 May 1994 19:29:08 GMT
From: ihnp4.ucsd.edu!sdd.hp.com!hpscit.sc.hp.com!cupnews0.cup.hp.com!
jholly@network.ucsd.edu
To: info-hams@ucsd.edu

References <01HB9U9AAQFE000B36@mr.mec.mass.edu>, <2phr2b$2bn@tymix.Tymnet.COM>,
<2q2ui1$201@meaddata.meaddata.com>
Subject : Re: ARRL address

Robert Penrod (robertp@meaddata.com) wrote:
: Really enjoyed the HAMVENTION this weekend. My 9 year old Daughter really
: enjoyed the SAREX 10th Anniversary Forum where she meet Astronauts Tony
: England, W0ORE and Steven Nagel N5RAW. She is even more interested in getting
: a ticket. I was interested in the ARRL address and failed to "swim" to their
: booth to get some more information about SAREX. I have it at home but does
: any body carry this imformation off the top of their heads. Would greatly
: appreciate it.

:   73's
:   Rob, N8WWA

  ARRL
  225 Main St.
  Newington, CT 06111

Jim, WA6SDM

End of Info-Hams Digest V94 #481
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